

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently amended) A circuit arrangement having a low temperature coolant circuit ~~(1)~~ for cooling charge air in a motor vehicle having a supercharger with a charge-air/coolant radiator ~~(2)~~, ~~characterized in that~~ wherein a temperature sensor ~~(4)~~ is provided at the coolant outlet of the charge-air/coolant radiator ~~(2)~~ or a short distance downstream for measuring the coolant outlet temperature.
2. (Currently amended) The circuit arrangement as claimed in claim 1, ~~characterized in that~~ wherein the coolant flow rate is controlled as a function of the determined coolant temperature.
3. (Currently amended) The circuit arrangement as claimed in claim 1 ~~or 2~~, ~~characterized in that~~ wherein the temperature sensor ~~(4)~~ is a thermostat.
4. (Currently amended) The circuit arrangement as claimed in ~~one of the preceding claims,~~ ~~characterized in that~~ claim 1, wherein the temperature sensor ~~(4)~~ is integrated into a plastic part which serves to carry coolant.
5. (Currently amended) The circuit arrangement as claimed in claim 4, ~~characterized in that~~ wherein the plastic part is produced by means of plastic injection-molding.
6. (Currently amended) The circuit arrangement as claimed in ~~one of the preceding claims,~~ ~~characterized in that~~ claim 1, wherein the low temperature coolant circuit ~~(1)~~ is connected to a main coolant circuit ~~(11)~~, so that there is an exchange of coolant.
7. (Currently amended) The circuit arrangement as claimed in claim 6, ~~characterized in that~~ wherein a control valve ~~(7)~~ is arranged in the low temperature coolant circuit ~~(1)~~.

8. (Currently amended) The circuit arrangement as claimed in claim 7, ~~characterized in that~~ wherein the control valve (7) is arranged upstream of a low temperature coolant radiator (3) or upstream of the charge-air/coolant radiator (2).
9. (Currently amended) The circuit arrangement as claimed in ~~one of the preceding claims, characterized in that~~ claim 1, wherein the coolant traveling from the charge-air/coolant radiator (2) is fed upstream of a pump (P) to a main coolant circuit (11).
10. (Currently amended) A method for operating a circuit arrangement (K) having a low temperature circuit (1) for cooling charge air in a motor vehicle having a supercharger with a charge-air/coolant radiator (2), ~~characterized in that~~ wherein the coolant flow rate through the charge-air/coolant radiator (2) is controlled as a function of the coolant temperature determined at the charge-air/coolant radiator (2).
11. (Currently amended) The method as claimed in claim 10, ~~characterized in that~~ wherein the coolant flow rate through the charge-air/coolant radiator is controlled taking into consideration a rotational speed and/or load, in particular of a drive engine of the motor vehicle, a traveling speed of the motor vehicle, an outside temperature and/or an ambient pressure.